

## SEQUENCE LISTING

SEQ ID NO:1 p33ING2 polypeptide sequence

1 MLGQQQQQLY SSAALLTGER SRLLT CYVQD YLEC VESLPH DMQR NVS VLR  
51 ELDNK YQETL KEIDD VYE KY KKEDDLNQKK RLQQ LLL QRAL INSQ ELG DEK  
101 IQIV TQM LEL VENR ARQ MEL HSQCF QDP AE SERAS DKA KM DSS QPER SSR  
151 RPRR QRT SES RDLCHMANGI EDCDD QPP KE KKS KS A KKK RSKAK QERE A  
201 SPVE FAID PN EPTY CLCN QV SYGEM I GCDN EQCPIE WFHF SCVSL TYKPK  
251 GK WYCPK CRG DNEKTMDK ST EKT KKDR RSR

SEQ ID NO:2 p33ING2 Nucleic acid sequence

(GenBank Accession No. AF053537)

1 gcggccgcgg ccgggtgc atg tgccgctgct ggatgcggag gcggcggcga cggcgcggat  
61 cggcaggatg ttagggcagc agcagcagca actgtactcg tcggctgcgc tcctgaccgg  
121 ggagcggagc cggctgctca cctgctacgt gcaggactac cttgagtcgc tggagtgcct  
181 gccccacgac atgcagagga acgtgtctgt gctgcgagag ctggacaaca aatatcaaga  
241 aacgttaaag gaaattgatg atgtctacga aaaatataag aaagaagatg atttaaacca  
301 gaagaaaacgt ctacagcagc ttctccagag agcactaatt aatagtcaag aattgggaga  
361 tgaaaaaata cagattgtta cacaaatgct cgaattggtg gaaaatcggg caagacaaat  
421 ggagttacac tcacagtgtt tccaagatcc tgctgaaagt gaacgagcc t cagataaagc  
481 aaagatggat tccagccaac cagaaagatc ttcaagaaga cccgcaggc agcggaccag  
541 tgaaagccgt gatttatgtc acatggcaaa tgggattgaa gactgtgatg atcagccacc  
601 taaaagaaaag aaatccaagt cagcaaagaa aaagaaaacgc tccaaggcca agcaggaaag  
661 ggaagcttca cctgttgagt ttgcaataga tccta atgaa cctacatact gcttatgca  
721 ccaagtgtct tatggggaga tgataggatg tgacaatgaa cagtgtccaa ttgaatggtt  
781 tcactttca tgtgttac ttaacctataa accaaagggg aaatggtatt gcccaa agt  
841 caggggagat aatgagaaaa caatggacaa aagtactgaa aagacaaaaa aggatagaag  
901 atcgaggtat taaaggccat ccacat tta aagggttatt tgtttt ataa ttcgat  
961 tgcttcaga aaatgttta ggttaaatgc ataagactat gcaataat ttaatcatta  
1021 gtattaaatgg tgtttaaaaa gttgttgc tttgaaaaaaa aaaaaaaaaa aaaaaaaaaa

SEQ ID NO:3 Primer MLGQQQQ

SEQ ID NO:4 Primer KKDR RSR

SEQ ID NO:5 peptide 7-26 of p33ING2 (KMP1)

QQLYSSAALLTGER SRLLT

SEQ ID NO:6 missense amino acid or nucleic acid sequence – arg 153 to ser

1 MLGQQQQQLY SSAALLTGER SRLLCYVQD YLECVESLPH DMQRNVSVLR  
51 ELDNKYQETL KEIDDVYEKY KKEEDLNQKK RLQQLLQRAL INSQELGDEK  
101 IQIVTQMEL VENRARQMLEL HSQCFQDPAE SERASDKAKM DSSQPERSSR  
151 RPSRQRTSES RDLCHMANGI EDCDDQPPKE KKSKSAKKKK RSKAKQEREA  
201 SPVEFAIDPN EPTYCLCNQV SYGEMIGCDN EQCPIEWFHF SCVSLTYKPK  
251 GKWYCPKCRG DNEKTMDKST EKTKKDRRSR

SEQ ID NO:7 p33ING2 genomic DNA sequence (Exon1/Intron)

(GenBank Accession No. HSING2S1)

Exon 1: 1..239

Intron: 240...>423

1 gccccccgcgg ccgggtgcatg tgccgctgct ggatgcggag gcggcggcga cggcgccggat  
61 cggcaggatg ttagggcagc agcagcagca actgtactcg tcggctgcgc tcctgaccgg  
121 ggagcggagc cggctgctca cctgctacgt gcaggactac cttgagtgcg tggagtcgct  
181 gccccacgac atgcagagga acgtgtctgt gctgcgagag ctggacaaca aatatcaagg  
241 taggggcccgc ggggctgccc gcctcgggag ccgggtggcgg ggagcctgtc cgggggagtg  
301 ccacccccc ttctccctgt gacagtctcc ccgagcgcac cgagggtctg ccgagcggga  
361 ctgggaggac tggagaccgg gttggcggcc ctccgtggcc ccggcgtggg cgagtgaagg  
421 aga

SEQ ID NO:8 p33ING1 amino acid sequence

p33ING1 Length: 279

1 MLSPANGEQL HLVNYVEDYL DSIESLPFDL QRNVSLMREI DAKYQEILKE  
51 LDECYERFSR ETDGAQKRRM LHCVRALIR SQELGDEKIQ IVSQMVELVE  
101 NRTRQVDSHV ELFEAQQELG DTAGNSKGAG ADRPKGEEAA QADKPNSKRS  
151 RRQRNNENRE NASSNHDHDD GASGTPKEKK AKTSKKKRS KAKAEREASP  
201 ADLPIDPNEP TYCLCNQVSY GEMIGCDNDE CPIEWFHFSC VGLNHKPKGK  
251 WYCPKCRGEN EKTMDKALEK SKKERAYNR

SEQ ID NO:9 Peptide 1-17 and C of p33ING1 (KMP2)

MLSPANGEQLHLVNYVEC

SEQ ID NO:10 p33ING2 genomic DNA sequence (Exon 2/intron)

(GenBank Accession No. HSING2S2)

Intron: <1..123

Exon 2: 124..938

1 ccaaagagga gtatggttc atggtttag ttcataattt aattctgtaa aaaataacta  
61 cttggaaat gttgtgtctg ctaacacatg ataacgttct cattttctt ttcccttttt  
121 tagaaacgtt aaaggaaatt gatgatgtct acgaaaaata taagaaagaa gatgatttaa  
181 accagaagaa acgtctacag cagcttctcc agagagcact aattaatagt caagaattgg  
241 gagatgaaaa aatacagatt gttacacaaa tgctcgaatt ggtggaaaat cgggcaagac  
301 aaatggagtt acactcacag tggccaaat atcctgctga aagtgaacga gcctcagata  
361 aagcaaagat ggattccagc caaccagaaa gatcttcaag aagaccccgc aggcaagcgg  
421 ccagtgaaag ccgtgattt tgacatgg caaatggat tgaagactgt gatgatcagc  
481 cacctaaaga aaagaaatcc aagtcagca agaaaaagaa acgctccaag gccaaagcagg  
541 aaagggaaagc ttcacctgtt gagtttgc当地 tagatcctaa tgaacctaca tactgcttat  
601 gcaaccaagt gtcttatggg gagatgatag gatgtgacaa tgaacagtgt ccaattgaat  
661 ggtttcaactt ttcatgtgtt tcacttacact ataaacccaaa gggaaatgg tattgcccaa  
721 agtgcagggg agataatgag aaaacaatgg aaaaaagtac tggaaaagaca aaaaaggata  
781 gaagatcgag gtagtaaagg ccatccacat tttaaagggt tatttgctt ttatataatt  
841 cgtttgc当地 cagaaaaatgt tttagggtaa atgcataaga ctatgcaata atttttaatc  
901 attagtatta atgggttatt aaaagttgtt gtactttgtc tgtgaccta attttctgca  
961 ctgagttacc aaat